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Memorandum

DEPT OF ENVIRONMENTAL QUALITY
NORTHWEST REGION

To: Rodney G. Struck
From: John E. Edwards
CC: David Templeton, Kim Johannessen, Frank Williamson, John Renda
Date: July 24, 2002
Re: Well Installation Update
Brix Maritime Company, Portland, Oregon

Monitoring wells MW-3 and MW-4 were installed on July 17, 2002. Both wells were installed at the locations approved by DEQ in a letter dated July 12, 2002. The monitoring well MW-3 screen depth interval is 10 to 25 feet below ground surface (bgs). The well MW-4 screen depth interval is 5 to 15 feet bgs.

During drilling there was no saturated soil or measurable water in the MW-3 borehole, although soils were damp. The contact of the fill with the pre-fill soil surface was estimated to be at approximately 23 feet bgs. You were contacted by phone before the well was constructed to discuss the well installation plan. During that conversation it was agreed that the well would be constructed with the screen zone depth as described above although the water table depth was unknown. It was also agreed that we would postpone the installation of wells MW-1, -2, and -5 until the expected rise in the water table this fall. This would enable us to be more certain of the water table fluctuation range before installing the remaining wells and selecting screen intervals.

We also agreed during the July 17, 2002 telephone conference to proceed with the installation of well MW-4 because that well was to be installed adjacent to the river where it was expected that groundwater was more likely to be encountered.

Water table depth measurements were made in monitoring wells MW-3 and MW-4 on July 22, 2002. Groundwater was measured at 22.85 feet below top of casing (btoc) in MW-3 and 11.24 feet btoc in MW-4. MW-3 was dry after 1.5 gallons were pumped from the well. There was no measurable recharge in MW-3 after 1 hour.

MW-4 was surged and bailed dry after 5.0 gallons were removed. The water level in MW-4 recovered approximately 1 foot after an hour and was surged and bailed dry again.

Monitoring wells MW-3 and MW-4 will be purged of 3 casing volumes or until dry on Monday, July 29, 2002. If, after purging, there is insufficient water to fill the sample bottles due to slow recharge, the samples will be collected on Tuesday, July 30, 2002 (within 24 hours of purging). The groundwater samples will be tested for the constituents agreed in the approved work plan.

We propose to begin monthly water level measurements in MW-3 and MW-4, beginning with the July 29, 2002 sampling and wait until groundwater levels rise in the Fall before installing MW-1, MW-2, and MW-5.